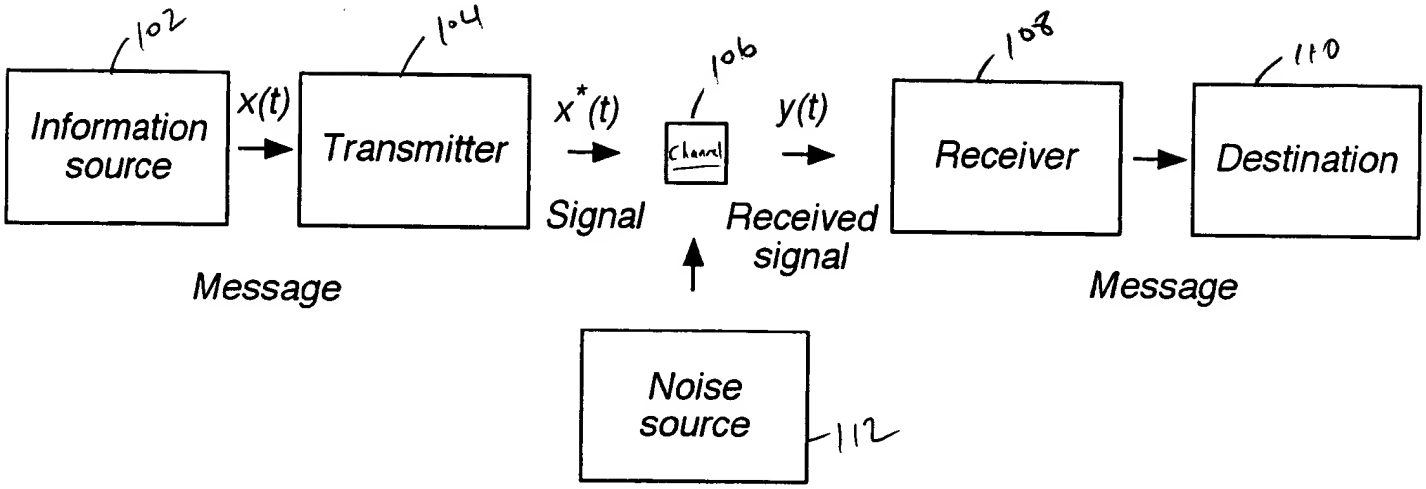


Figure 1A
Prior Art

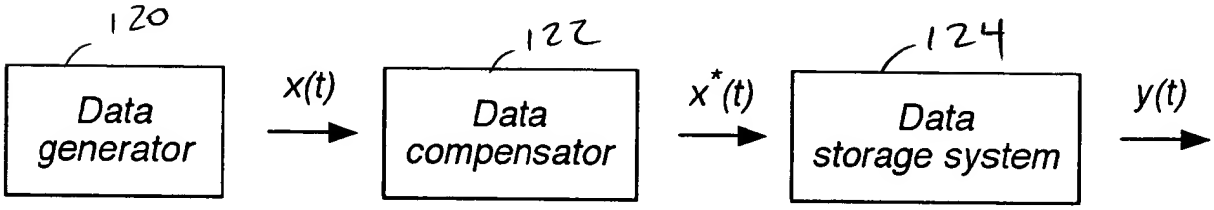


Figure 1B

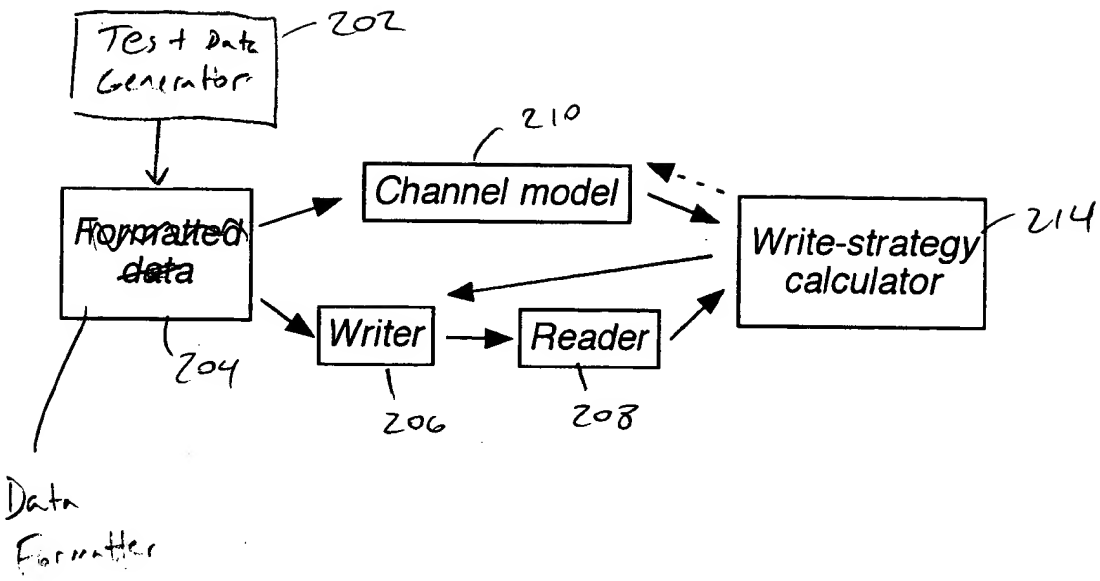


FIG. 2. Write compensation system

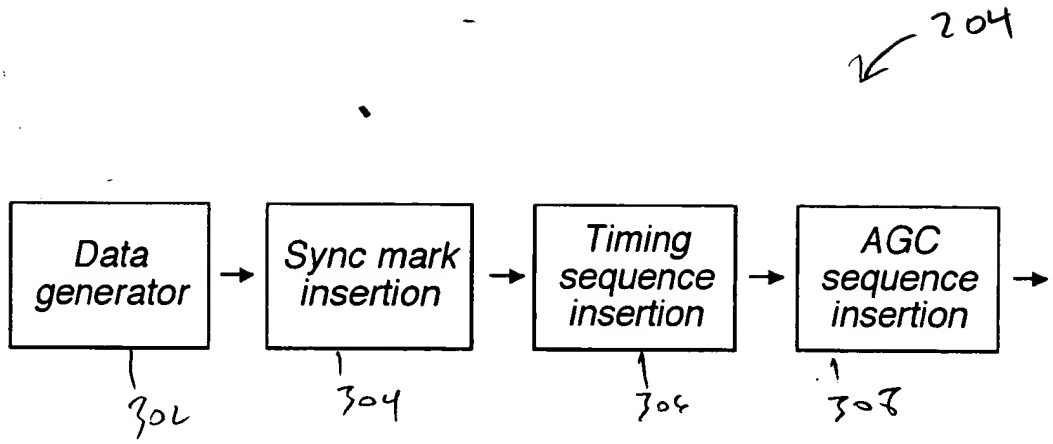


FIG. 3. Data formatter

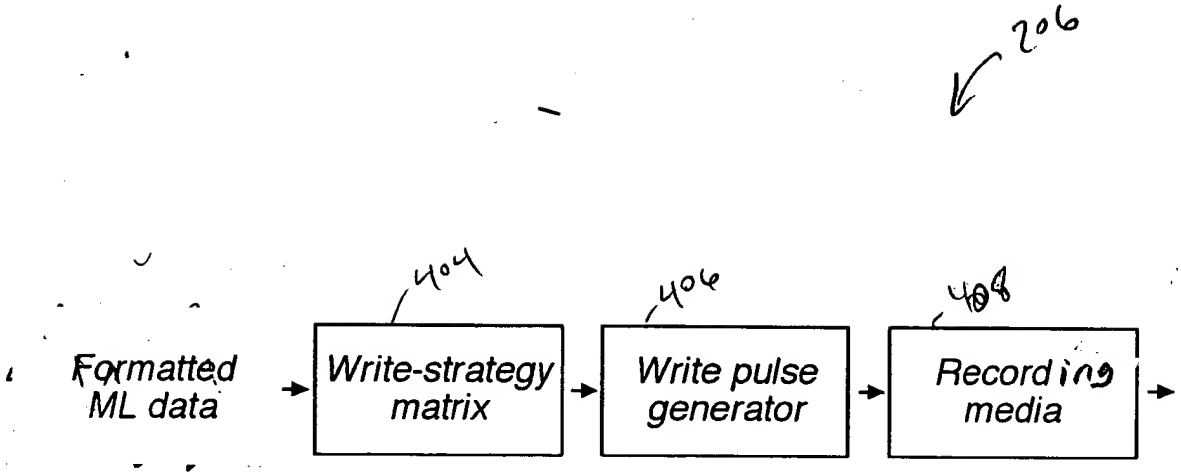


FIG. 4A. Data writer

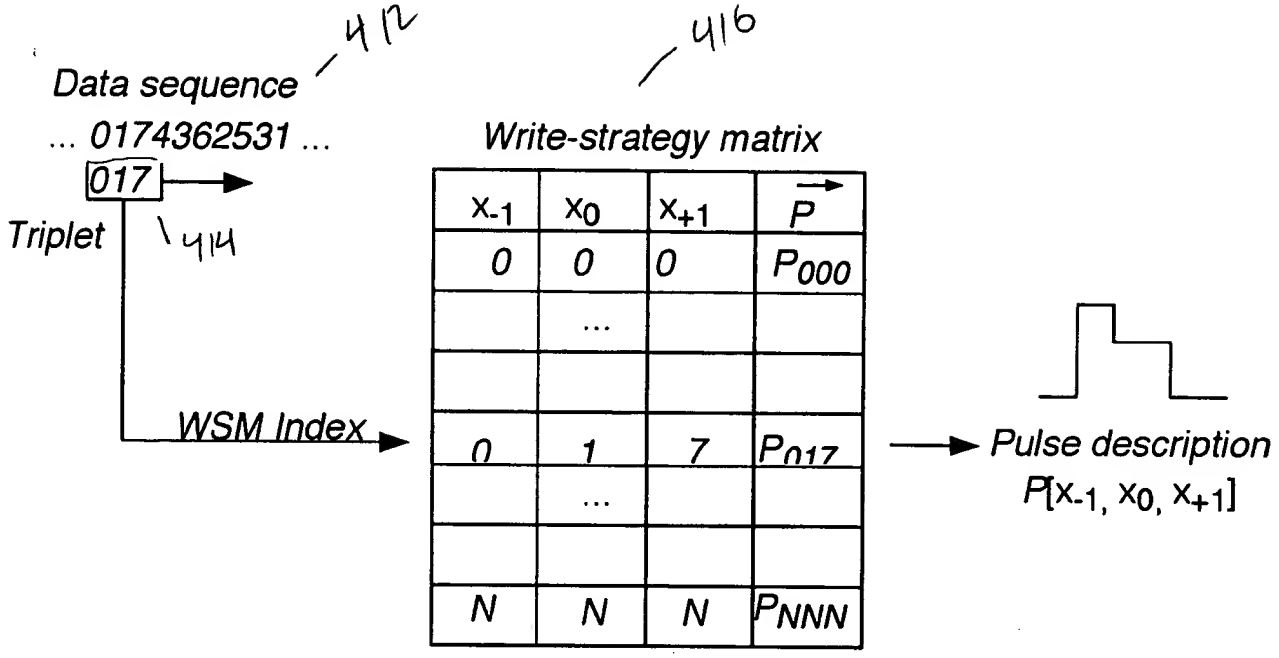

412
416
Data sequence
... 0174362531 ...
017
Triplet
414
Write-strategy matrix
x-1
x0
x+1
P
0
0
0
P000
...
0
1
7
P017
...
N
N
N
PNNN
WSM Index
Pulse description
P[x-1, x0, x+1]

Figure 4B

00210 : 8656760

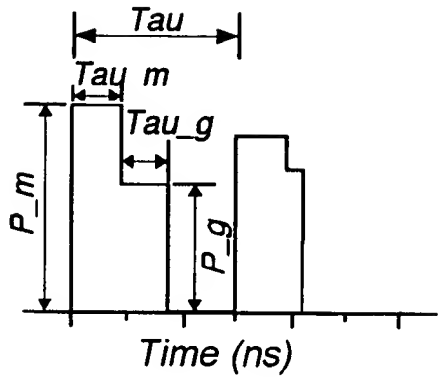


Figure 4C

Docket: 95-0969-US

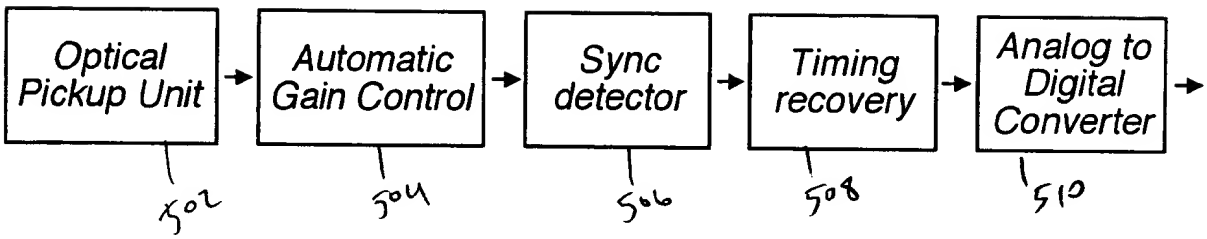


Figure 5

214

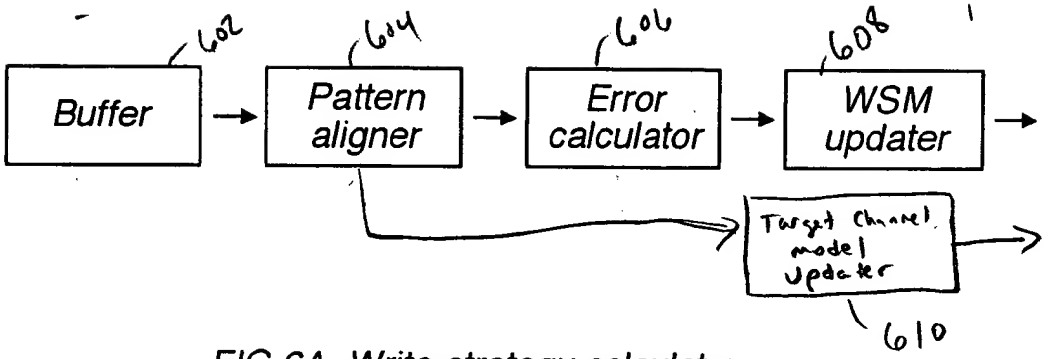


FIG 6A. Write-strategy calculator

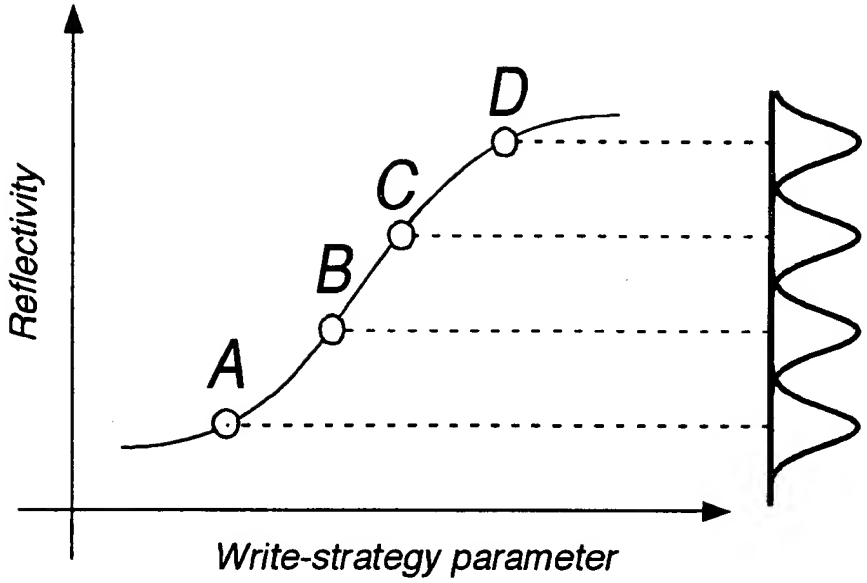


Figure 6B

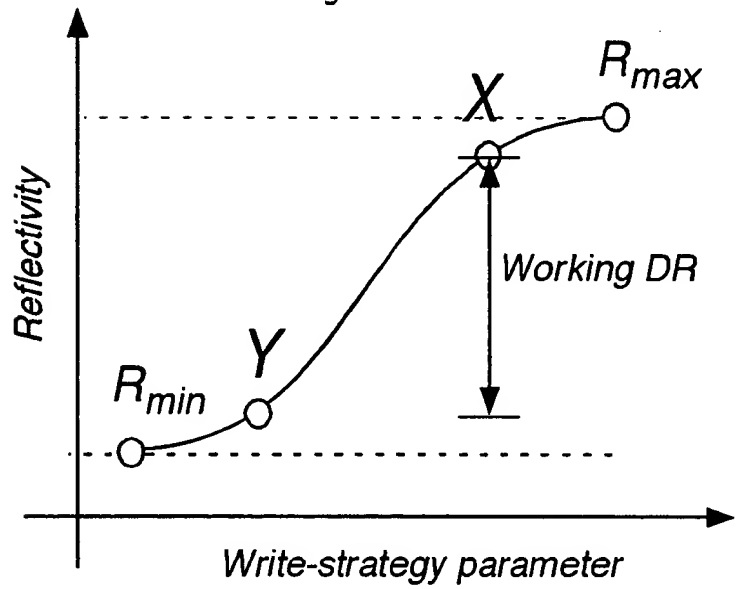
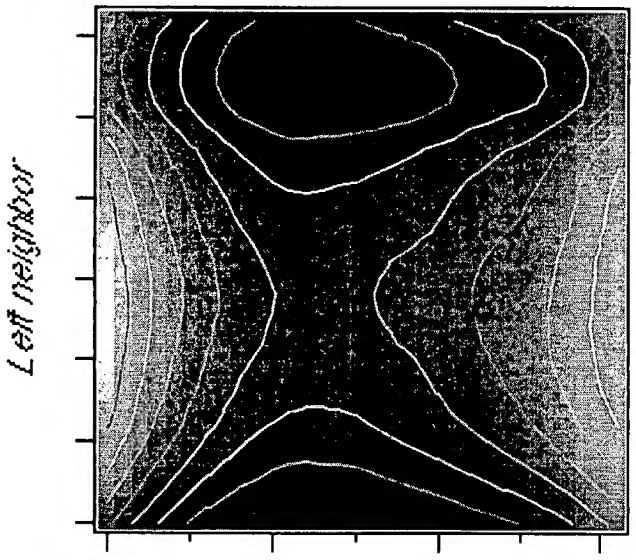


Figure 6C

Non-linear error (level 3)
before precompensation



Non-linear error (level 3)
after precompensation

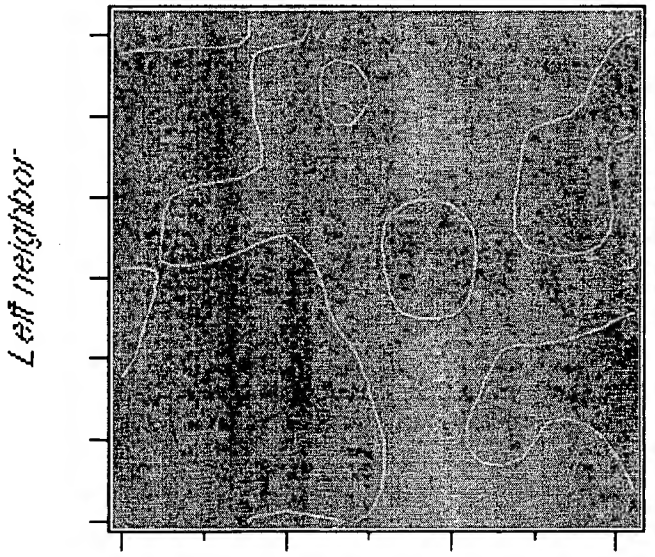


Figure 6D

Level placement criteria

ELC = Equal Level Criteria
CDC = Constant Discriminability Criteria

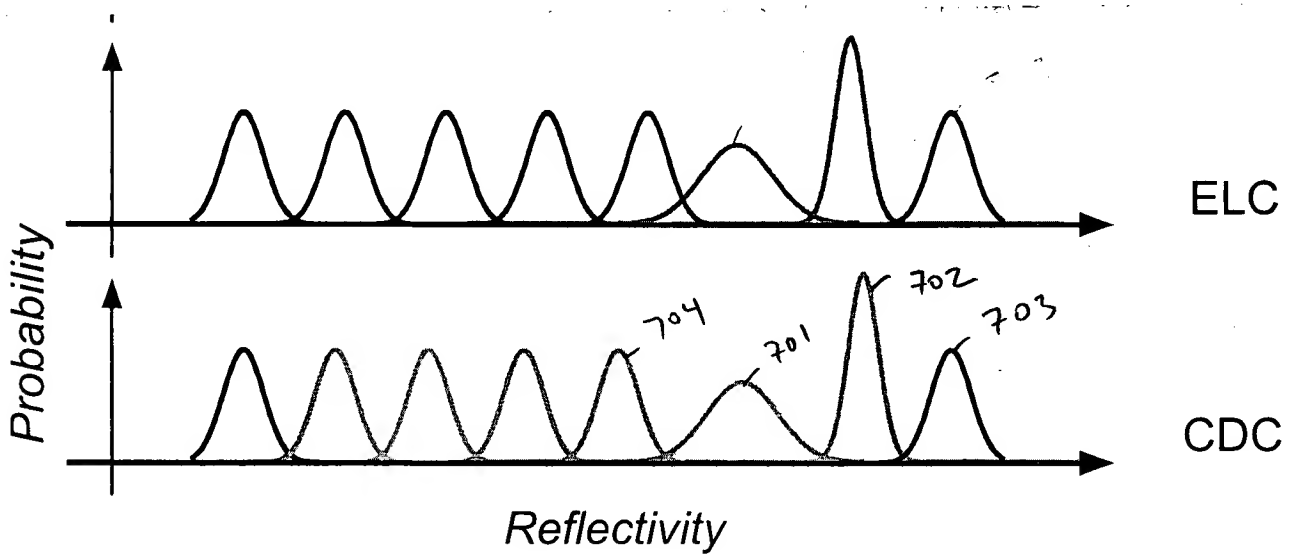


Figure 7

09496898 .020200

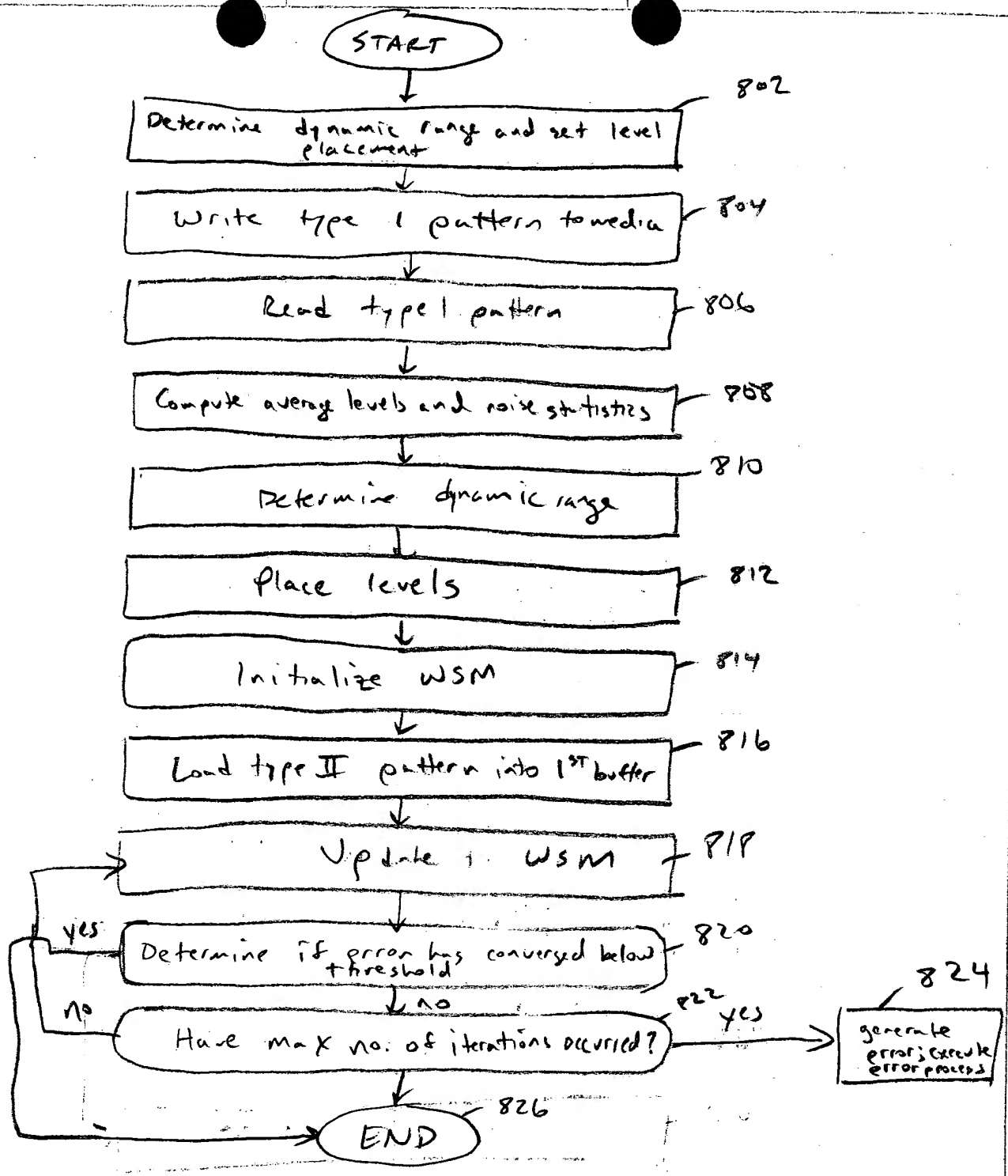


Figure 8A

Document ID: 0000000000000000

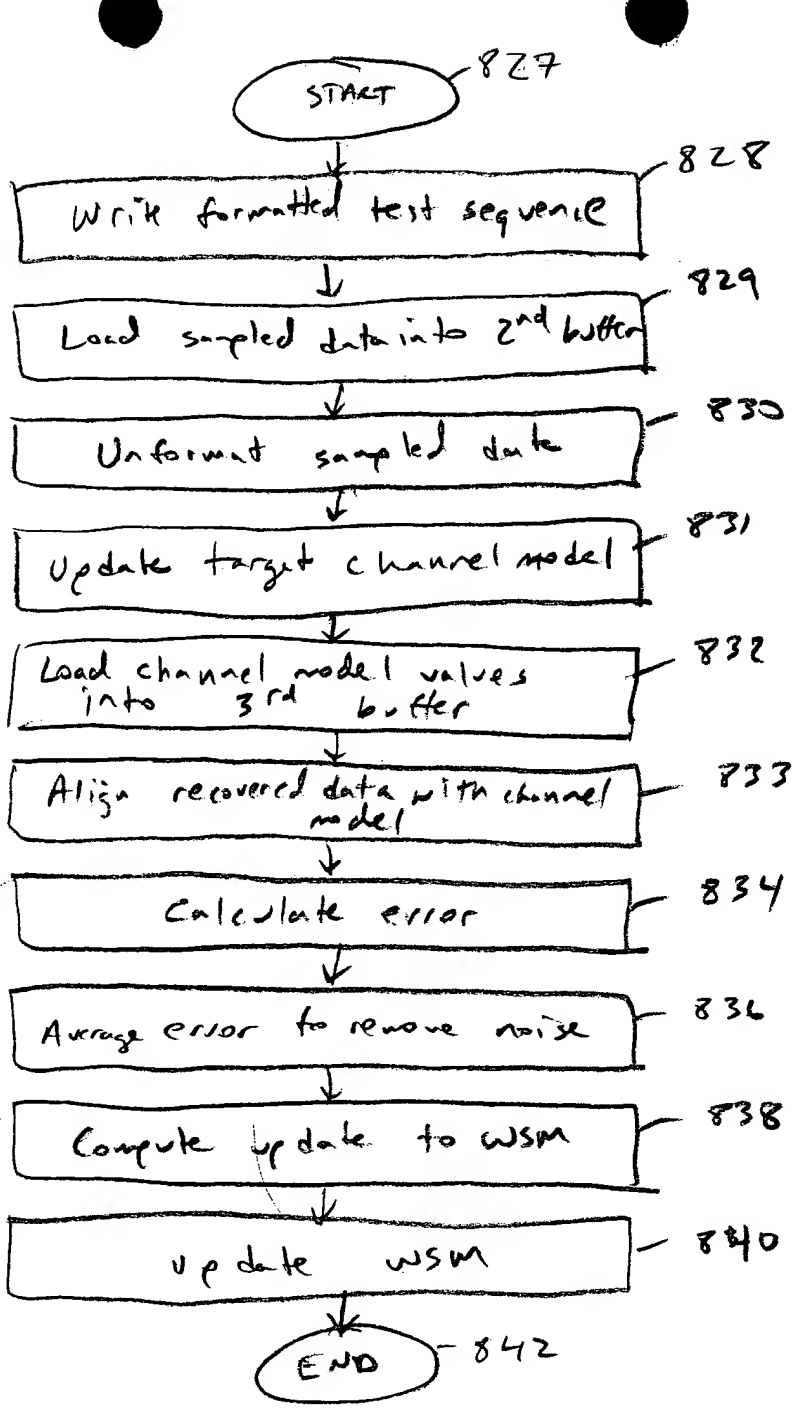

818
827
START
828
Write formatted test sequence
829
Load sampled data into 2nd buffer
830
Unformat sampled data
831
Update target channel model
832
Load channel model values into 3rd buffer
833
Align recovered data with channel model
834
Calculate error
836
Average error to remove noise
838
Compute update to WSM
840
update WSM
842
END

Figure 8B